Docket No.: 128601

DECLARATION AND POWER OF ATTORNEY UNDER 35 USC §371(c)(4) FOR PCT APPLICATION FOR UNITED STATES PATENT

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below under my name;

I verily believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought, namely the invention entitled: <u>METHOD OF ESTIMATING TEMPERATURE OF GAS MIXTURE FOR INTERNAL COMBUSTION ENGINE</u> described and claimed in international application number <u>PCT/JP2005/002188</u> filed on <u>February 8</u>, 2005.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations §1.56.

Under Title 35, U.S. Code §119, the priority benefits of the following foreign application(s) filed by me or my legal representatives or assigns within one year prior to my international application are hereby claimed:

Japanese Patent Application No. 2004-032950 filed on February 10, 2004

The following application(s) for patent or inventor's certificate on this invention were filed in countries foreign to the United States of America either (a) more than one year prior to my international application, or (b) before the filing date of the above-named foreign priority application(s):

I hereby appoint the following as my attorneys of record with full power of substitution and revocation to prosecute this application and to transact all business in the Patent Office:

James A. Oliff, Reg. No. 27,075; William P. Berridge, Reg. No. 30,024; Kirk M. Hudson, Reg. No. 27,562; Thomas J. Pardini, Reg. No. 30,411; Edward P. Walker, Reg. No. 31,450; Robert A. Miller, Reg. No. 32,771; Mario A. Costantino, Reg. No. 33,565; Stephen J. Roe, Reg. No. 34,463; Joel S. Armstrong, Reg. No. 36,430; Christopher W. Brown, Reg. No. 38,025; Richard E. Rice, Reg. No. 31,560; and Paul Tsou, Reg. No. 37,956.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA, VIRGINIA 22320, TELEPHONE (703) 836-6400.

I hereby declare that I have reviewed and understand the contents of this Declaration, and that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1	Typewritten F	ull Name				
	of Sole or Firs	t Inventor		Taku		Ibuki
				Siven Name	Middle Initial	Family Name
2	2 Inventor's Signatu		Jaku			Sbuki
3	Date of Signature:			May	29	2006
				Month	Day	Year
	Residence: Citizenship: Japanese		Susono-shi		Shizuoka-ken	Japan
			City		State or Province	Country
	Post Office Address: (Insert complete mailing address, including country)		ress:	c/o TOYOTA JIDOSHA KABUSHIKI KAISHA		
				1, Toyota-cho, Toyota-shi, Aichi 471-8571 Japar		Japan

Note to Inventor: Please sign name on line 2 exactly as it appears in line 1 and insert the actual date of signing on line 3.

PAGE 2 OF U.S.A. DECLARATION FORM (Discard this page in a sole inventor application)

l	Typewritten Full Nai	пе			
	of Joint Inventor		Shigeki		Nakayama
	T41- Ci		Given Name	Middle Initial	Family Name
	Inventor's Signature	:: 	Shigeki		Nakayomod
	Date of Signature:		June	19	2006
			Month	Day	Year
	Residence:	Susono		Shizuoka-ken State or Province	Japan Country
	Citizenship: _ Ja	C. panese	ity		
	Post Offic	e Address:	с/о ТОҮОТА ЛОС	SHA KABUSHIKI KAISHA	
	àddress, in	mplete mailing ncluding country)	1, Toyota-cho, Toy	ota-shi, Aichi 471-8571 Japan	
	Typewritten Full Nai of Joint Inventor				
	Inventor's Signature		Given Name	Middle Initial	Family Name
	Date of Signature:		Month	Day	Year
	Residence:		wwith	Day	i cai
			ity	State or Province	Country
	(Insert co	e Address: mplete mailing ncluding country)			
	Typewritten Full Nai of Joint Inventor		Given Name	Middle Initial	Family Name
	Inventor's Signature		Given Name	whide initial	rainily Name
	Date of Signature:		Month	Davi	Year
	Residence:		Monun	Day	rear
	Citizenship:		ity	State or Province	Country
	(Insert con	e Address: mplete mailing ncluding country)			
	Typewritten Full Nat of Joint Inventor	me 			
	Inventor's Signature	::	Given Name	Middle Initial	Family Name
	Date of Signature:		Month	D	V
	Residence:		Month	Day	Year
	Citizenship:		ity	State or Province	Country
	Post Offic (Insert co	e Address: mplete mailing ncluding country)			

Note to Inventor: Please sign name on line 2 exactly as it appears in line 1 and insert the actual date of signing on line 3.

This form may be executed only when attached to the first page of the Declaration and Power of Attorney of the application to which it pertains.

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DESIGNATION OF TEN ATTORNEYS <u>FOR POWER OF ATTORNEY</u>

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This serves as a separate paper in compliance with 37 CFR §1.32(b) indicating that the following ten patent practitioners named in the attached power of attorney are to be recognized by the Patent Office as being of record in the application to which the attached power of attorney is directed:

James A. Oliff, Reg. No. 27,075; William P. Berridge, Reg. No. 30,024; Kirk M. Hudson, Reg. No. 27,562; Thomas J. Pardini, Reg. No. 30,411 Edward P. Walker, Reg. No. 31,450; Mario A. Costantino, Reg. No. 33,565; Joel S. Armstrong, Reg. No. 36,430; Christopher W. Brown, Reg. No. 38,025 Richard E. Rice, Reg. No. 31,560; Paul Tsou, Reg. No. 37,956;

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944, TELEPHONE (703) 836-6400.

Respectfully submitted,

William P. Berridge

Registration No. 365029

JAO:WPB/jtp

Date: July 5, 2006